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SOPRAROCK DD

TECHNICAL DATA SHEET
121018SCAN3E
(supersedes -100317SCAN3F)

DESCRIPTION

SOPRAROCK DD is a mineral wool board insulation with a rigid upper surface for durability and enhanced strength. **SOPRAROCK DD** must be mechanically fastened only.

ADVANTAGES

SOPRAROCK are mineral wool fiber boards made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 1177 °C (2150 °F), which gives it excellent fire resistance properties. **SOPRAROCK** mineral wool is a water repellent yet vapor permeable material. **SOPRAROCK DD** provides excellent dimensional stability and excellent acoustic properties. Moreover, the R-Value of **SOPRAROCK DD** is stable. The product is fire resistant and made from natural and recycled products.

PROPERTIES

Properties	Standards	SOPRAROCK DD
Thickness	-	2-6 in (by increment of ½ in)
Dimensions	-	4 ft x 4 ft (1.2 x 1.2 m)
Thermal Resistance (RSI Value - m²K/W for 25.4 mm at 75 °F)	ASTM C 518 (C 177)	0.68 m²K/W (R – 3.8 hr • ft² • °F / BTU for 1in at 75 °F)
Compressive Strength		
- Top Layer at 10%	ASTM C 165	139 kPa (20.2 psi)
- Top Layer at 25%		252 kPa (37.0 psi)
- Entire Board (3 in Thickness) at 10%		71 kPa (10.3 psi)
- Entire Board (3 in Thickness) at 25%		103.5 kPa (15.0 psi)
- Point load at 5mm compression	EN 12430	205 kPa (30.0 psi)
Density		
- Top Layer	ASTM C 612-09	13.75 lbs/ft³ (220 kg/m³)
- Bottom layer		10.0 lbs/ft³ (160 kg/m³)
* Formed as a monolithic structure		
Dimensional Stability, Linear Shrinkage 24 hours at 1200 °F (650 °C)	ASTM C 356	0.71 %
Water Absorption	ASTM C 209	< 1.0 %
Water Vapor Sorption	ASTM C 1104	0.15 %

CAN/ULC-S107-03 Fire test of roof covering, classified according to the type of membrane used.

CAN/ULC-S126-06 Fire spread under roof deck assemblies, classified according to the type of membrane used.

(All values are nominal)

PACKAGING

The factory packaging is intended for the protection of the boards during transit and is not intended for job site protection against the elements. When product is stored outdoors, the plastics shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin. Insulation must be stored minimum 102 mm (4 in) above ground and kept on a solid flat surface.

PRECAUTIONS

SOPRAROCK DD should not be exposed to inclement weather during shipment, storage or installation. At the completion of a day's work, all exposed edges should be sealed by lapping roof membrane over them. The products are not intended for use as a structural roof deck or for use under heavy traffic areas.

